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REPLY TO
ATTENTION OF

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3 May 07

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Minimum Hardware Requirements for New Computer Purchases

The enclosed Tables show the minimum hardware requirements for computers to run on the Windows Vista Operating System (OS), to include the security features supported by Vista. Fort Hood will migrate to Vista 1Q FY08 and therefore all systems purchased now should meet the attached standards as a minimum.

Encl

A handwritten signature in black ink, appearing to read "D. Sheppard", is positioned above the printed name.

DENNIS K. SHEPPARD
Director of Information Management

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Table 1. Windows WORKSTATION Minimum Hardware Configuration

Component	Specification	Threshold - Requirement
Audio Support	Audio Architecture	AC'97
	Compatible	Sound Blaster
Security	Smartcard Reader*	Approved IAW Army CAC Reader Guidance
	Trusted Platform Module (TPM)	V1.2 with Core Root of Trust Measurements
Hard Disk Drive (HDD)	Capacity	100GB (Two Partitions, 30GB & 70GB)
	Interface / Rate (e.g., SATA-1.5GB/s)	Serial ATA
	Drive Cache	8 MB
	RPM	
Input Devices	Mouse	Web Wheel Mouse
	Keyboard	104 Key Keyboard** Section 508 1194.26
Memory	Installed RAM	1GB
	Memory Chips (e.g., DDR2-667)	
	Total System Capacity	
Network Support	Speed / Throughput Integrated or Card	100Base-T
Peripheral Support Ports	Number of USB 2.0	4
	Number of Serial	1 %%%
	Number of Parallel	1 (High Speed) %%%
CPU	Processor ***	Intel Core 2 Duo T7200 (2.0Ghz) or AMD Turion 64 X2 TL60 (2.0Ghz)
	System Bus Technology & Speed	
	L2 Cache Size	
Removable Media (Optical Drive)	Internal or External	
	Drive Type	DVD±RW
	Speeds	4X DVD-RW 40X CD-ROM
Physical Parameters	Weight w/ Battery	
	Display Size	Greater than 17"
	Display Resolution	
Video Controller	Graphic Support (Vista Operations)	DirectX 9 classgraphics hardware that supports WDDM and Pixel Shader model 2.0

	Video RAM	128 MB Dedicated Memory
Operating System **	Army Golden Master	Version 6.1
Wireless Support	Transmission Standard Integrated or Card	802.11 b/g
Modem Support	Transmission Standard Integrated or Card	Modems are not a requirement on Desktop computers
Internal PC Card Slots	# and Type	2 Type II or 1 Type III (1Type II w/ integrated LAN, WiFi and modem)

* The currently approved Common Access Card readers are listed at <https://iacacpki.army.mil..>

** 104 Key Keyboard with smart card reader if approved and listed at <https://iacacpki.army.mil.>

***Processor types are for reference purposes only and do not represent a mandate to acquire Intel only processors. Alternatives certified by Microsoft that provide approximately the same performance levels are acceptable.

**** In order to maximize Vista functionality, the following is recommended:

- Windows-Vista Display Driver Model (WDDM) graphics driver is necessary to make full use of enhanced graphic capabilities in Vista. The Intel 945G express chipset, ATI RS400 or RS480, and various NVIDIA GeForce family chipsets are perspective targets for providing Vista support. There is also industry consideration for support of dual channel Unified Memory Architecture (UMA) solutions and 1 GB of system memory.

- SATA hard drives with 8MB cache and Native Command Queuing.

- A 32-bit processor is nominally adequate. A 64-bit processor is optimal.

%% May provide require port via USB adapter

Table 2. Windows LAPTOP/NOTEBOOK Minimum Configuration

Component	Specification	Threshold - Requirement
Audio Support	Audio Architecture	AC'97
	Compatible	Sound Blaster
Security	Smartcard Reader*	Integrated reader approved IAW Army CAC Reader Guidance
	Trusted Platform Module (TPM)	TPM V1.2 with Core Root of Trust Measurements
Physical Parameters	Overall Dimensions (L x W x D)	
	Weight w/ Battery	
	Display Size	Less than 14"
	Display Resolution	
Hard Disk Drive (HDD)***	Capacity	100GB (Two Partitions, 30GB & 70GB)
	Interface / Rate (e.g., SATA-1.5GB/s)	Serial ATA
	Drive Cache	8 MB
	RPM	
Input Devices	Mouse	Web Wheel Mouse
	Keyboard	104 Key Keyboard** Section 508 1194.26
Memory	Installed RAM	1GB
	Memory Chips (e.g., DDR2-667)	
	Total System Capacity	
Modem Support	Transmission Standard	V.92 Modulation V.44 Compression
	Integrated or Card	
Network Support	Speed / Throughput	100Base-T
	Integrated or Card	
Internal PC Card Slots	# and Type	2 Type II or 1 Type III (1Type II w/ integrated LAN, WiFi and modem)
Operating System **	Army Golden Master	Version 6.1
Peripheral Support	Number of USB 2.0	2
	Number of Serial	1 %%
	Number of Parallel	1 %%
CPU	Processor	Intel Core 2 Duo T5500 (1.6Ghz) or Intel Core 2 Duo L7400 (1.5Ghz) or AMD Turion 64 X2 TL60 (2.0Ghz)
	System Bus Technology & Speed	

	L2 Cache Size	
Removable Media (Optical Drive)	Internal or External	
	Drive Type	DVD±RW
	Speeds	4X DVD-RW 40X CD-ROM
Video Controller***	Graphic Support (Vista Operations)	DirectX 9 classgraphics hardware that supports WDDM and Pixel Shader model 2.0
	Video RAM	128MB Dedicated Memory
	Transmission Standard	802.11 b/g
Wireless Support	Integrated or Card	Wireless devices are disabled by default

*The currently approved Common Access Card readers are listed at <https://iacacpki.army.mil>.

**Processor types are for reference purposes only and do not represent a mandate to acquire Intel only processors. Alternatives certified by Microsoft that provide approximately the same performance levels are acceptable. † Screen size is only a recommendation, not a requirement as other sizes may be necessary.

*** In order to maximize Vista functionality, the following is recommended:

- Windows-Vista Display Driver Model graphics driver is necessary to make full use of enhanced graphic capabilities in Vista. The Intel 945G express chipset, ATI RS400 or RS480, and various NVIDIA GeForce family chipsets are perspective targets for providing Vista support. There is also industry consideration for support of dual channel Unified Memory Architecture (UMA) solutions and 1 GB of system memory.

- SATA hard drives with 8MB cache and Native Command Queuing.

- A 32-bit processor is nominally adequate. A 64-bit processor is optimal.

%% May provide require port via USB adapter

These are the minimum recommended hardware configurations for Macintosh based systems. New acquisitions should be based on the Intel processor architecture.

Table 3. Macintosh Workstation Minimum Hardware Configuration

Component	Hardware
Audio Support	Not applicable; Apple provides its own audio support.
Card Reader	Smart Card USB CAC Reader*
Hard Drive	160GB or higher 80 GB for Mac Mini, partitioned
Input Devices	Apple Keyboard Apple Mighty Mouse - wired
Memory	1 GB or higher
Network Support	10/100/1000 Base-T Ethernet
Peripheral Support	1FireWire 2 USB (2.0 version)
Processor	G5 or higher or Intel Core Duo
Removable Media	DVD / CD-RW
Video Support	64MB SDRAM or higher (shred in Mini) 15" LCD or 17" SVGA Monitor

* Check the manufacturer's compatibility list.

Table 4. Macintosh Notebook Minimum Hardware Configuration

Component	Hardware
Card Reader	USB CAC Reader*
Hard Drive	80GB or higher Partitioned
Memory	1GB or higher
Network Support	10/100/1000 Base-T Ethernet
Peripheral Support	1FireWire 2 USB (2.0 version)
Processor	1.83GHz Intel Core Duo or higher
Removable Media	DVD-R / CD-RW
Video Support	64MB SDRAM or higher (shared in MacBook) 13.3", 15" or 17" Display

* Check the manufacturer's compatibility list.